Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listings of Claims:

- 1. (currently amended) A semiconductor die package comprising;
 - a semiconductor die;
 - a leadframe having a chemically-etched surface; and
- a capsule comprising a molding compound, said capsule enclosing at least a portion of said die and at least a portion of said leadframe, said molding compound being in contact with said chemically-etched surface of said leadframe so as to reduce the possibility of separation between said molding compound and said leadframe as said package undergoes thermal cycles and/or to inhibit the ingress of moisture into said package.
- 2. (original) The semiconductor package of Claim 1 wherein said leadframe consists essentially of copper alloy.
 - 3-6. (canceled)
 - 7. (currently amended) A semiconductor package comprising:
 - a semiconductor die:
 - a leadframe having a chemically-etched surface; and
 - a capsule enclosing <u>at least a portion of</u> said die and at least a portion <u>of</u> said leadframe:
 - said package further comprising an organo-metallic coating on the surface of the leadframe.
 - 8-20. (canceled)
- 21. (previously presented) The semiconductor package of Claim 1 wherein the arithmetic mean deviation of a profile of said chemically-etched surface is in the range of $0.050~\mu m$ to $0.170~\mu m$.

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- 22. (previously presented) The semiconductor package of Claim 21 wherein the mean peak-to-valley height of said chemically-etched surface is in the range of 0.180 μ m to 0.700 μ m.
- 23. (previously presented) The semiconductor package of Claim 22 wherein the ten-point height of irregularities of said chemically-etched surface is in the range of 0.400 μ m to 1.500 μ m.
- 24. (previously presented) The semiconductor package of Claim 21 wherein the ten-point height of irregularities of said chemically-etched surface is in the range of 0.400 μm to 1.500 μm.
- 25. (previously presented) The semiconductor package of Claim 24 wherein the maximum profile valley depth of said chemically-etched surface is in the range of 0.200 μ m to 0.750 μ m.
- $\underline{2627}$. (currently amended) The semiconductor package of Claim 22 wherein the maximum profile valley depth of said chemically-etched surface is in the range of 0.200 μ m to 0.750 μ m.
- 27. (previously presented) The semiconductor package of Claim 21 wherein the maximum profile valley depth of said chemically-etched surface is in the range of 0.200 μ m to 0.750 μ m.
- 28. (previously presented) The semiconductor package of Claim 1 wherein the mean peak-to-valley height of said chemically-etched surface is in the range of 0.180 μ m to 0.700 μ m.
- 29. (previously presented) The semiconductor package of Claim 28 wherein the ten-point height of irregularities of said chemically-etched surface is in the range of 0.400 μ m to 1.500 μ m.
- 30. (previously presented) The semiconductor package of Claim 29 wherein the maximum profile valley depth of said chemically-etched surface is in the range of 0.200 μ m to 0.750 μ m.

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- 31. (previously presented) The semiconductor package of Claim 28 wherein the maximum profile valley depth of said chemically-etched surface is in the range of 0.200 μ m to 0.750 μ m.
- 32. (previously presented) The semiconductor package of Claim 1 wherein the ten-point height of irregularities of said chemically-etched surface is in the range of 0.400 μ m to 1.500 μ m.
- 33. (previously presented) The semiconductor package of Claim 32 wherein the maximum profile valley depth of said chemically-etched surface is in the range of 0.200 μ m to 0.750 μ m.
- 34. (previously presented) The semiconductor package of Claim 1 wherein the maximum profile valley depth of said chemically-etched surface is in the range of 0.200 μ m to 0.750 μ m.
 - 35. (canceled)
- 36. (new) The semiconductor package of Claim 7 wherein the capsule is in contact with the organo-metallic coating so as to reduce the possibility of separation between said capsule and said leadframe as said package undergoes thermal cycles and/or to inhibit the ingress of moisture into said package.
- 37. (new) The semiconductor package of Claim 1 wherein a recess is formed in the leadframe, a surface of the leadframe within the recess being chemically-etched.
- 38. (new) The semiconductor package of Claim 1 comprising a plated metal layer on a portion of the leadframe.
- 39. (new) The semiconductor package of Claim 38 wherein a surface of the leadframe under the plated metal layer is chemically-etched.
- 40. (new) The semiconductor package of Claim 38 wherein a surface of the leadframe under the plated metal layer is not chemically-etched.
- 41. (new) The semiconductor package of Claim 1 wherein a top surface or a side surface of said leadframe is chemically-etched and a bottom surface of said leadframe is not chemically-etched.

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- 42. (new) The semiconductor package of Claim 1 wherein said chemicallyetched surface is light brown to brown in color.
- 43. (new) The semiconductor package of Claim 7 wherein the arithmetic mean deviation of a profile of said chemically-etched surface is in the range of 0.050 μ m to 0.170 μ m.
- 44. (new) The semiconductor package of Claim 7 wherein the mean peak-to-valley height of said chemically-etched surface is in the range of 0.180 μ m to 0.700 μ m.
- 45. (new) The semiconductor package of Claim 7 wherein the ten-point height of irregularities of said chemically-etched surface is in the range of 0.400 μ m to 1.500 μ m.
- 46. (new) The semiconductor package of Claim 7 wherein the maximum profile valley depth of said chemically-etched surface is in the range of 0.200 μm to 0.750 μm.
- 47. (new) The semiconductor package of Claim 23 wherein the maximum profile valley depth of said chemically-etched surface is in the range of 0.200 μm to 0.750 μm.